

### Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Original) A method of treating or preventing menorrhagia in a female individual, the method comprising administering to the individual at least one agent that prevents PGF<sub>2α</sub> having its effect on the FP receptor.
2. (Original) A method according to Claim 1 wherein the agent that prevents PGF<sub>2α</sub> having its effect on the FP receptor prevents or reduces the binding of PGF<sub>2α</sub> to the FP receptor.
3. (Currently Amended) A method according to Claim 1 or 2 wherein the agent that prevents PGF<sub>2α</sub> having its effect on the FP receptor affects the interaction between PGF<sub>2α</sub> and the FP receptor, or the interaction between the FP receptor and the associated G<sub>αq</sub> protein, thus inhibiting or disrupting a PGF<sub>2α</sub> -FP mediated signal transduction pathway.
4. (Currently Amended) A method according to any of Claims 1 to 3 Claim 1 wherein the agent is an antagonist of the FP receptor.
5. (Currently Amended) A method according to Claim 4 wherein the FP receptor antagonist is any one or more of PGF<sub>2α</sub> dimethyl amide; PGF<sub>2α</sub> dimethyl amine; AL-8810 ((5Z,13E)-(9S,11S,15R)-9,15-dihydroxy-11-fluoro-15-(2-indanyl)-16,17,18,19,20-pentanor-5,13-prostadienoic acid); AL-3138 (11-deoxy-16-fluoro PGF<sub>2α</sub>); phloretin; glibenclamide; ridogrel; PHG113; PCP-1 (~~RVKFKSQQHRQGRSHHLEM~~  
rvkfkssqhqgrshhlem); PCP-2  
(~~RKAVLKNLYKLASQCCGVHVISLHIWELSSIKNSLKVA~~AISESPVAEKSAST  
rkavlnlyklasqccgvhvislhiwelssiknslkvaaisespvaeksast); PCP-3  
(~~CLSEEAKEAR~~RINDEIERQLRRDKRDARRE-NH<sub>2</sub> clseeakarrindeierqlrrdkrdarre-NH<sub>2</sub>);  
PCP-4 (~~KDTILQLNLKEYNLV-NH<sub>2</sub>~~ kdtiqlnlkeynlv-NH<sub>2</sub>); PCP-8 (ilghrdyk); PCP-10  
(wedrfyll); PCP-13 (ILGHRDYK); PCP-14 (YQDRFYLL); (ILAHRDYK); PCP-13.7  
(ILAHRDYK); PCP-13.8 (ILaHRDYK); PCP-13.11 (ILGFRDYK); PCP-13.13  
(ILGHKDYK); PCP-13.14 (ILGHRNYK); PCP-13.18 (ILGHQDYK); PCP-13.20  
(ILGHRDY-amide); PCP-13.21 (ILGHRDYK-amide); PCP-13.22 (ILGWRDYK); PCP-  
13.24 (ILGXRDYK); and PCP-15 (SNVLCSIF).

6. (Currently Amended) A method according to ~~any of Claims 1 to 5~~ Claim 1 wherein the agent is an antagonist of PGF<sub>2α</sub>.

7. (Original) A method according to Claim 6 wherein the PGF<sub>2α</sub> antagonist is an anti-PGF<sub>2α</sub> antibody.

8. (Currently Amended) A method according to ~~any of the preceding claims~~ wherein Claim 1 further comprising administering to the individual one or more of an inhibitor of PGES and/or an antagonist of EP2 or EP4 ~~is also administered to the individual~~.

9. (Currently Amended) A method according to Claim 8 wherein the antagonist of EP2 or EP4 is AH6809, an omega-substituted prostaglandin E derivative ~~described in WO 00/15608 (Ono Pharm Co Ltd)~~, AH23848B, AH22921X, IFTSYLECL, IFASYECL, IFTSAECL, IFTSYEAL, ILASYECL, IFTSTDCL, TSYEAL (with 4-biphenylalanine), TSYEAL (with homophenylalanine), a 5-thia-prostaglandin E derivative ~~described in WO 00/03980 (Ono Pharm Co Ltd)~~, 5-butyl-2,4-dihydro-4-[[2'-[N-(3-chloro-2-thiophenecarbonyl)sulfamoyl]biphenyl-4-yl]methyl]-2-{2-(trifluoromethyl)phenyl]-1,2,4-triazol-3-one potassium salt, 5-butyl-2,4-dihydro-4-[[2'-[N-(2-methyl-3-furoyl)sulfamoyl]biphenyl-4-yl]methyl]-2-{2-(trifluoromethyl)phenyl]-1,2,4-triazol-3-one, 5-butyl-2,4-dihydro-4-[[2'-[N-(3-methyl-2-thiophenecarbonyl)sulfamoyl]biphenyl-4-yl]methyl]-2-{2-(trifluoromethyl)phenyl]-1,2,4-triazol-3-one, 5-butyl-2,4-dihydro-4-[[2'-[N-(2-thiophenecarbonyl)sulfamoyl]biphenyl-4-yl]methyl]-2-{2-(trifluoromethyl)phenyl]-1,2,4-triazol-3-one, or 5-butyl-2,4-dihydro-4-[[2'-[N-[2-(methypyrrole)carbonyl]sulfamoyl]biphenyl-4-yl]methyl]-2-{2-(trifluoromethyl)phenyl]-1,2,4-triazol-3-one.

10. (Original) Use of at least one agent that prevents PGF<sub>2α</sub> having its effect on the FP receptor, in the manufacture of a medicament for treating or preventing menorrhagia in a female individual.

11. (Original) Use according to Claim 10, wherein the individual is administered one or more of an inhibitor of PGES and/or an antagonist of EP2 or EP4.

12. (Original) Use of a combination of at least one agent that prevents PGF<sub>2α</sub>, having its effect on the FP receptor, and one or more of an inhibitor of PGES and/or an antagonist of EP2 or EP4, in the manufacture of a medicament for treating or preventing a pathological condition of the uterus in a female individual.

13. (Original) Use of one or more of an inhibitor of PGES and/or an antagonist of EP2 or EP4 in the manufacture of a medicament for treating or preventing menorrhagia in a female individual, wherein the female individual is administered at least one agent that prevents PGF<sub>2α</sub> having its effect on the FP receptor.

14. (Original) A pharmaceutical composition comprising at least one agent that prevents PGF<sub>2α</sub> having its effect on the FP receptor for treating or preventing menorrhagia in a female individual.

15. (Original) A pharmaceutical composition according to Claim 14 further comprising one or more of an inhibitor of PGES and/or an antagonist of EP2 or EP4.

16. (Original) A vaginal ring or a tampon or an intrauterine device comprising at least one agent that prevents PGF<sub>2α</sub> having its effect on the FP receptor.

17. (Original) A vaginal ring or a tampon or an intrauterine device according to Claim 16 further comprising one or more of an inhibitor of PGES and/or an antagonist of EP2 or EP4.

18. (Currently Amended) A use according to Claim 10 any of Claims 10-13, or a pharmaceutical composition according to Claim 14 or 15, or a vaginal ring or a tampon or an intrauterine device according to Claim 16 or 17, wherein the agent that prevents PGF<sub>2α</sub> having its effect on the FP receptor is as defined in any of Claims 2-7 (i) prevents or reduces the binding of PGF<sub>2α</sub> to the FP receptor, (ii) affects the interaction between PGF<sub>2α</sub> and the FP receptor, or the interaction between the FP receptor and the associated G<sub>αq</sub> protein, thus inhibiting or disrupting a PGF<sub>2α</sub>-FP mediated signal transduction pathway, (iii) is an antagonist of the FP receptor, (iv) is an antagonist of PGF<sub>2α</sub>, or (v) is an anti-PGF<sub>2α</sub> antibody.

19. (Currently Amended) Use according to any of Claims 11-13 Claim 11, or a pharmaceutical composition according to Claim 15, or a vaginal ring or a tampon or an intrauterine device according to Claim 17, wherein the antagonist of EP2 or EP4 is as defined in Claim 9 selected from the group of AH6809, an omega-substituted prostaglandin E derivative, AH23848B, AH22921X, IFTSYLECL, IFASYECL, IFTSAECL, IFTSYEAL, ILASYECL, IFTSTDCL, TSYEAL (with 4-biphenylalanine), TSYEAL (with homophenylalanine), a 5-thia-prostaglandin E derivative, 5-butyl-2,4-dihydro-4-[[2'-[N-(3-chloro-2-thiophenecarbonyl)sulfamoyl]biphenyl-4-yl]methyl]-2-{(trifluoromethyl)phenyl}-

1,2,4-triazol-3-one potassium salt, 5-butyl-2,4-dihydro-4-[[2'-[N-(2-methyl-3-furoyl)sulfamoyl]biphenyl-4-yl]methyl]-2-{2-(trifluoromethyl)phenyl]-1,2,4-triazol-3-one, 5-butyl-2,4-dihydro-4-[[2'-[N-(3-methyl-2-thiophenecarbonyl)sulfamoyl]biphenyl-4-yl]methyl]-2-{2-(trifluoromethyl)phenyl]-1,2,4-triazol-3-one, 5-butyl-2,4-dihydro-4-[[2'-[N-(2-thiophenecarbonyl)sulfamoyl]biphenyl-4-yl]methyl]-2-{2-(trifluoromethyl)phenyl]-1,2,4-triazol-3-one, or 5-butyl-2,4-dihydro-4-[[2'-[N-[2-(methypyrrole)carbonyl]sulfamoyl]biphenyl-4-yl]methyl]-2-{2-(trifluoromethyl)phenyl]-1,2,4-triazol-3-one.

20. (Original) A composition comprising at least one agent that prevents PGF<sub>2α</sub> having its effect on the FP receptor, and one or more of an inhibitor of PGES and/or an antagonist of EP2 or EP4.

21. (Original) A pharmaceutical composition comprising at least one agent that prevents PGF<sub>2α</sub> having its effect on the FP receptor, and one or more of an inhibitor of PGES and/or an antagonist of EP2 or EP4, and a pharmaceutically acceptable carrier.

22. (Original) A composition according to Claim 20 for use in medicine.

23. (New) Use according to Claim 10 wherein the agent that prevents PGF<sub>2α</sub> having its effect on the FP receptor is an antagonist of the FP receptor is selected from the group of any one or more of PGF<sub>2α</sub> dimethyl amide; PGF<sub>2α</sub> dimethyl amine; AL-8810 ((5Z,13E)-(9S,11S,15R)-9,15-dihydroxy-11-fluoro-15-(2-indanyl)-16,17,18,19,20-pentanor-5,13-prostadienoic acid); AL-3138 (11-deoxy-16-fluoro PGF<sub>2α</sub>); phloretin; glibenclamide; ridogrel; PHG113; PCP-1 (rvkfksqqhrqgrshhlem); PCP-2 (rkavlknlyklasqccgvhvislhiwelssiknslkvaaisespvaeksast); PCP-3 (clseeakearrindeierqlrrdkrdarre-NH<sub>2</sub>); PCP-4 (kdttilqlnlkeynlv-NH<sub>2</sub>); PCP-8 (ilghrdyk); PCP-10 (wedrfyll); PCP-13 (ILGHRDYK); PCP-14 (YQDRFYLL); (ILAHRDYK); PCP-13.7 (ILAHRDYK); PCP-13.8 (ILaHRDYK) ; PCP-13.11 (ILGFRDYK); PCP-13.13 (ILGHKDYK); PCP-13.14 (ILGHRNYK); PCP-13.18 (ILGHQDYK); PCP-13.20 (ILGHRDY-amide); PCP-13.21 (ILGHRDYK-amide); PCP-13.22 (ILGWRDYK); PCP-13.24 (ILGXRDYK); and PCP-15 (SNVLCSIF).

24. (New) A pharmaceutical composition according to Claim 14 wherein the agent that prevents PGF<sub>2α</sub> having its effect on the FP receptor (i) prevents or reduces the binding of PGF<sub>2α</sub> to the FP receptor, (ii) affects the interaction between PGF<sub>2α</sub> and the FP

receptor, or the interaction between the FP receptor and the associated G<sub>αq</sub> protein, thus inhibiting or disrupting a PGF<sub>2α</sub> -FP mediated signal transduction pathway, (iii) is an antagonist of the FP receptor, (iv) is an antagonist of PGF<sub>2α</sub>, or (v) is an anti-PGF<sub>2α</sub> antibody.

25. (New) A pharmaceutical composition according to claim 14 wherein the agent that prevents PGF<sub>2α</sub> having its effect on the FP receptor is an antagonist of the FP receptor is selected from the group of any one or more of PGF<sub>2α</sub> dimethyl amide; PGF<sub>2α</sub> dimethyl amine; AL-8810 ((5Z,13E)-(9S,11S,15R)-9,15-dihydroxy-11-fluoro-15-(2-indanyl)-16,17,18,19,20-pantanor-5,13-prostadienoic acid); AL-3138 (11-deoxy-16-fluoro PGF<sub>2α</sub>); phloretin; glibenclamide; ridogrel; PHG113; PCP-1 (rvkfksqqhrqgrshhlem); PCP-2 (rkavlknlyklasqccgvhvislhiwelssiknslkvaaisespvaeksast); PCP-3 (clseeakearrindeierqlrrdkrdarre-NH<sub>2</sub>); PCP-4 (kdtlqlnlkeynlv-NH<sub>2</sub>); PCP-8 (ilghrdyk); PCP-10 (wedrfyll); PCP-13 (ILGHRDYK); PCP-14 (YQDRFYLL); (ILAHRDYK); PCP-13.7 (ILAHRDYK); PCP-13.8 (ILaHRDYK); PCP-13.11 (ILGFRDYK); PCP-13.13 (ILGHKDYK); PCP-13.14 (ILGHRNYK); PCP-13.18 (ILGHQDYK); PCP-13.20 (ILGHRDY-amide); PCP-13.21 (ILGHRDYK-amide); PCP-13.22 (ILGWRDYK); PCP-13.24 (ILGXRDYK); and PCP-15 (SNVLCSIF).

26. (New) A vaginal ring or a tampon or an intrauterine device according to claim 16 wherein the at least one agent that prevents PGF<sub>2α</sub> having its effect on the FP receptor (i) prevents or reduces the binding of PGF<sub>2α</sub> to the FP receptor, (ii) affects the interaction between PGF<sub>2α</sub> and the FP receptor, or the interaction between the FP receptor and the associated G<sub>αq</sub> protein, thus inhibiting or disrupting a PGF<sub>2α</sub> -FP mediated signal transduction pathway, (iii) is an antagonist of the FP receptor, (iv) is an antagonist of PGF<sub>2α</sub>, or (v) is an anti-PGF<sub>2α</sub> antibody.

27. (New) A vaginal ring or a tampon or an intrauterine device according to claim 16 wherein the agent that prevents PGF<sub>2α</sub> having its effect on the FP receptor is an antagonist of the FP receptor is selected from the group of any one or more of PGF<sub>2α</sub> dimethyl amide; PGF<sub>2α</sub> dimethyl amine; AL-8810 ((5Z,13E)-(9S,11S,15R)-9,15-dihydroxy-11-fluoro-15-(2-indanyl)-16,17,18,19,20-pantanor-5,13-prostadienoic acid); AL-3138 (11-deoxy-16-fluoro PGF<sub>2α</sub>); phloretin; glibenclamide; ridogrel; PHG113; PCP-1 (rvkfksqqhrqgrshhlem); PCP-2 (rkavlknlyklasqccgvhvislhiwelssiknslkvaaisespvaeksast); PCP-3 (clseeakearrindeierqlrrdkrdarre-NH<sub>2</sub>); PCP-4 (kdtlqlnlkeynlv-NH<sub>2</sub>); PCP-8

(ilghrdyk); PCP-10 (wedrfyll); PCP-13 (ILGHRDYK); PCP-14 (YQDRFYLL); (ILAHRDYK); PCP-13.7 (ILAHRDYK); PCP-13.8 (ILaHRDYK) ; PCP-13.11 (ILGFRDYK); PCP-13.13 (ILGHKDYK); PCP-13.14 (ILGHRNYK); PCP-13.18 (ILGHQDYK); PCP-13.20 (ILGHRDY-amide); PCP-13.21 (ILGHRDYK-amide); PCP-13.22 (ILGWRDYK); PCP-13.24 (ILGXRDYK); and PCP-15 (SNVLCSIF).

28. (New) A pharmaceutical composition according to Claim 15 wherein the antagonist of EP2 or EP4 is selected from the group of AH6809, an omega-substituted prostaglandin E derivative, AH23848B, AH22921X, IFTSYLECL, IFASYECL, IFTSAECL, IFTSYEAL, ILASYECL, IFTSTDCL, TSYEAL (with 4-biphenylalanine), TSYEAL (with homophenylalanine), a 5-thia-prostaglandin E derivative, 5-butyl-2,4-dihydro-4-[[2'-[N-(3-chloro-2-thiophenecarbonyl)sulfamoyl]biphenyl-4-yl]methyl]-2-{2-(trifluoromethyl)phenyl]-1,2,4-triazol-3-one potassium salt, 5-butyl-2,4-dihydro-4-[[2'-[N-(2-methyl-3-furoyl)sulfamoyl]biphenyl-4-yl]methyl]-2-{2-(trifluoromethyl)phenyl]-1,2,4-triazol-3-one, 5-butyl-2,4-dihydro-4-[[2'-[N-(3-methyl-2-thiophenecarbonyl)sulfamoyl]biphenyl-4-yl]methyl]-2-{2-(trifluoromethyl)phenyl]-1,2,4-triazol-3-one, 5-butyl-2,4-dihydro-4-[[2'-[N-(2-thiophenecarbonyl)sulfamoyl]biphenyl-4-yl]methyl]-2-{2-(trifluoromethyl)phenyl]-1,2,4-triazol-3-one, or 5-butyl-2,4-dihydro-4-[[2'-[N-[2-(methypyrrole)carbonyl]sulfamoyl]biphenyl-4-yl]methyl]-2-{2-(trifluoromethyl)phenyl]-1,2,4-triazol-3-one.

29. (New) A vaginal ring or a tampon or an intrauterine device according to claim 17 wherein the antagonist of EP2 or EP4 is selected from the group of AH6809, an omega-substituted prostaglandin E derivative, AH23848B, AH22921X, IFTSYLECL, IFASYECL, IFTSAECL, IFTSYEAL, ILASYECL, IFTSTDCL, TSYEAL (with 4-biphenylalanine), TSYEAL (with homophenylalanine), a 5-thia-prostaglandin E derivative, 5-butyl-2,4-dihydro-4-[[2'-[N-(3-chloro-2-thiophenecarbonyl)sulfamoyl]biphenyl-4-yl]methyl]-2-{2-(trifluoromethyl)phenyl]-1,2,4-triazol-3-one potassium salt, 5-butyl-2,4-dihydro-4-[[2'-[N-(2-methyl-3-furoyl)sulfamoyl]biphenyl-4-yl]methyl]-2-{2-(trifluoromethyl)phenyl]-1,2,4-triazol-3-one, 5-butyl-2,4-dihydro-4-[[2'-[N-(3-methyl-2-thiophenecarbonyl)sulfamoyl]biphenyl-4-yl]methyl]-2-{2-(trifluoromethyl)phenyl]-1,2,4-triazol-3-one, 5-butyl-2,4-dihydro-4-[[2'-[N-(2-thiophenecarbonyl)sulfamoyl]biphenyl-4-yl]methyl]-2-{2-(trifluoromethyl)phenyl]-1,2,4-triazol-3-one, or 5-butyl-2,4-dihydro-4-[[2'-[N-[2-(methypyrrole)carbonyl]sulfamoyl]biphenyl-4-yl]methyl]-2-{2-(trifluoromethyl)phenyl]-1,2,4-triazol-3-one.